U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1900.

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CUBA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

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HAVANA, CUBA, W. I.
WEATHER BUREAU OFFICE.
1900.

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U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

CENTRAL OFFICE: WASHINGTON, D. C.

CUBA SECTION

MONTROSE W. HAYES, *Acting Section Director.*

HAVANA, CUBA, W. I.

Advantage is taken of the present opportunity to tender thanks to the Voluntary Observers and Correspondents for the very valuable aid rendered during the past year in the compilation and publication of data and general information relative to the climate and crops of the Island of Cuba. The scope of the service was more than doubled during the year 1900 and that measure of success attained was made possible by the assistance of the Observers and Correspondents. It is hoped that the same invaluable cooperation that has characterized the past will be extended in the future, in order that the general benefits of the service may be still further widened.

SUMMARY OF METEOROLOGICAL AND CROP CONDITIONS.

The year was characterized by good and generally well distributed rains, which were, however, more abundant in the summer months than in the winter season—due allowance being made for a normal seasonal difference. The period of greatest rain was from May to September; the months having the least rain were January to April, and November and December—the precipitation during the last two months being very local in character. The one month of greatest rainfall was September, during which Santiago de Cuba received 29.49 inches—14.34 inches falling in 24 hours; the month of least rainfall was April and in that month no rain at all fell at Batabanó (southern Havana) and Sagua la Grande (northwestern Santa Clara). The greatest annual falls were 68.92 inches at Pinar del Rio and 61.82 inches at Puerto Principe; the least were 38.92 inches at Havana and 44.16 inches at Holguin.

The monthly mean temperatures, as a rule, ranged between 70° and 80° from January to April and from October to December, and from 78° to 83° from May to September, but during the latter period the mean temperatures at the great majority of stations throughout the Island were very uniformly near 80°. In the southeastern portion of the Island—on the southern coast of Santiago de Cuba—the highest temperatures of the year prevailed, while the lowest were very generally recorded in eastern Havana and throughout Matanzas.

On account of the generally well distributed and

DEPARTAMENTO DE AGRICULTURA DE LOS E. U.

SERVICIO CLIMATOLOGICO Y DE COSECHAS

DEL

WEATHER BUREAU

OFICINA CENTRAL: WASHINGTON D. C.

SECCION DE CUBA

MONTROSE W. HAYES, *Director interino de la Seccion.*

HABANA, CUBA.

Se aprovecha esta oportunidad para dar las gracias á los Observadores voluntarios y á los Corresponsales por su valiosa cooperación durante el año próximo pasado, á la copilación y publicación de datos é informes generales relativos á la climatología y trabajos agrícolas de la Isla de Cuba. El campo del servicio ha sido más que duplicado en el año 1900; y este éxito se ha alcanzado con la ayuda de los Observadores y Corresponsales, siendo de esperar que la misma apreciabilísima cooperación que ha prevalecido hasta aquí, continúe en el porvenir, para que los beneficios generales del servicio puedan aún extenderse más en lo adelante.

RESUMEN DE LAS CONDICIONES METEOROLOGICAS Y DE LAS COSECHAS.

El año ha sido de buenas y, en general, bien distribuídas lluvias en toda la Isla, siendo más abundantes en el verano que en el invierno. Los meses que se registran como más lluviosos son de Mayo á Septiembre, y los de menos lluvias de Enero á Abril, y Noviembre y Diciembre, siendo de carácter local las de estos dos meses. Entre los primeros, el mes en que más agua cayó fué en el de Septiembre en Santiago de Cuba que alcanzó un total de precipitación de 29.49 pulgadas, habiendo ocurrido que cayeran 14.34 en veinticuatro horas; y entre los segundos el menos lluvioso fué Abril, que fué de completa seca en Batabanó (S. de la Habana) y en Sagua la Grande (NO. de Santa Clara). Pero los puntos que más agua recibieron en todo el año fueron Pinar del Río, en donde ascendió el total de agua caída en todo él á 68.92 pulgadas y Puerto Príncipe que obtuvo 61.82; y aquellos en que cayó menos fueron la Habana que sólo obtuvo un total de 38.92 y Holguín 44.16.

La temperatura media normal se ha comprendido entre los 70° y 80° F., en general, de Enero á Abril y de Octubre á Diciembre; y de 78° á 83° de Mayo á Septiembre, si bien en la mayor parte de la Isla puede considerarse en un promedio de 80° en estos meses. En donde más elevadas temperaturas se han obtenido en todo el año en general, ha sido en el SE. de la Isla, ó séase en la costa S. de la provincia de Santiago de Cuba; y las más bajas en el E. de la Habana y en la de Matanzas.

opportune rains canes grew quite vigorously; in western Santa Clara, however, at several times during the year the showers were not sufficiently abundant to meet the needs of the canes but at the end of the year no deleterious effects of the dry weather were apparent. As the cool weather set in quite early, during the last fifteen days of November much cane ripened and a large number of sugar estates began to grind during that period; the yield of cane proved generally very good and the density of the juice quite satisfactory; as the season progressed the cool weather still further increased the juice density.

The tobacco crop of 1899—1900 was one of the largest ever raised in Cuba, as a very large acreage was put in and the growth and development of the plants were favored by unusually auspicious weather conditions; the quality of the leaves was also high. The 1900—1901 crop, however, has not been attended by such favorable conditions; while many seed beds were ruined, especially in Vuelta Abajo (Pinar del Rio), some by lack of rain and others by excessively heavy local showers, it cannot be said that there was a lack of young plants, for new beds were immediately sown, but after the plants were set out, both early and late crops, a continued deficiency of rainfall caused many of them to fail. The crop will necessarily be short but at the end of the year the majority of authorities expected the quality to prove fairly good.

Small crops were fair throughout the year, although the winter corn crop was a failure in northwest Santa Clara. Extensive areas in northwest Santiago de Cuba have been set out with banana plants. Vegetables have been generally sufficient for local needs.

Efecto de la buena distribución y oportunidad de las lluvias se han desarrollado muy bien todos los campos de caña, tanto los de *soca* como los nuevos, aunque en el mes de Noviembre le fueron escasas las lluvias en la parte O. de la provincia de Santa Clara. Como el invierno se ha anticipado este año, ya en la segunda quincena de dicho mes había mucha caña en estado de molerse; y por ello empezaron en esos días su zafra muchos Ingenios, con guarapo de buena densidad; y se espera una buena zafra en todas partes.

En cuanto al tabaco, cuya cosecha de 1899 á 1900 fué la mayor que ha producido la Isla; pues se sembró mucho y le hizo un tiempo excepcionalmente bueno, dándose por consiguiente en todas partes mucho y de buena calidad, no le ha sucedido lo mismo en la cosecha actual, ó sea la de 1900 á 1901; pues particularmente en Vuelta Abajo se perdieron muchos semilleros, en unas partes por falta de lluvias y en otras por exceso de ellas, si bien se volvieron á sembrar; y aunque no puede decirse que escasearan las posturas, muchas de estas se perdieron después de trasplantadas, por causa de la seca. Así que esta cosecha será corta, si bien se nos informa que será de buena calidad.

Se han dado bien los frutos menores, si bien se perdió el maíz de frío en el NO. de Santa Clara. En el NO. de Santiago de Cuba se han sembrado muchos plátanos. Las viandas en general han sido suficientes para las necesidades locales.

Barometer reduced to Sea-level and Standard Gravity and Temperature.

STATIONS	Mean	EXTREMES. Highest	Date	Lowest	Date
Havana.....	30.01	30.30	Feb. 19	29.54	Sep. 5
Cienfuegos *.....	29.98	30.28	Feb. 19	29.64	Sep. 5
Puerto Príncipe	29.99	30.21	Feb. 19	29.80	Mch. 26 Oct. 27
Santiago de Cuba....	29.96	30.13	Feb. 19 Mch. 8	29.79	Apr. 26 Sep. 2

WIND (MILES)

STATIONS	Prevailing direction	Total movement in miles	Maximum Velocity	Direction	Date
Havana.....	E.	91,680	42	NW.	Feb. 25
Cienfuegos *.....	NE.	56,519	38	S.	Sep. 5
Puerto Príncipe	NE.	61,990	33	E.	July 26
Santiago de Cuba ...	NE.	34,800	25	SW.	July 25

*31 days missing.

Barometro reducido al nivel del Mar y á 0°, y correjido por la Gravedad

ESTACIONES.	Media	EXTREMAS. Máxima	Fecha	Mínima	Fecha
Hábana.....	762.26	769.62	Feb. 19	750.32	Sbre. 5
Cienfuegos *.....	761.49	769.11	Feb. 19	752.86	Sbre. 5
Puerto Príncipe.....	761.75	767.34	Feb. 19	756.92	Marzo 26 Obre. 27
Santiago de Cuba.....	760.99	765.30	Feb. 19 Marzo 8	756.67	Abril 26 Sbre. 2

VIENTO (metros por segundo).

ESTACIONES	Dirección predominante	Movimiento total en kilometros	Velocidad Máxima	Direccion	Fecha
Habana.....	E.	131.451	18.8	NO.	Fbro. 25
Cienfuegos *.	NE.	90.959	17.0	S.	Sbre. 5
Puerto Príncipe.....	NE.	99.763	14.7	E.	Julio 26
Santiago de Cuba.....	NE.	56.005	11.2	SO.	Julio 25

* Faltan 31 días.

Climatological Data for the Year 1900.

STATIONS.	PROVINCES.	Temperature in degrees Fahrenheit.							Precipitation in inches.					Sky.				OBSERVERS.
		Annual mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Date.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	
San Cayetano †	Pinar del Rio	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 33	†100	† 68	† 46	†e	Sr. Miguel González.
Pinar del Rio ..	,,	76.7	94	May 6	50	*Feb. 20	36	Mch.13	52.04	12.57	May	1.06	Nov.	104	117	223	25	e	Sr. Dr. Eduardo Gomis.
Guanajay	,,	.....	.....	.....	.....	.....	.....	.....	68.92	12.53	July	1.32	Nov.	130	136	127	102	e	Sr. P. Núñez y Lostado.
Havana	Havana	76.2	91	June 24	53	Feb. 20	22	Apr. 8	38.92	9.93	May	.29	Apr.	117	72	179	114	e	U. S. Weather Bureau.
Batabanó	,,	77.0	97	Apr. 25	48	Feb. 20	34	Feb. 20	47.46	10.26	May	0	Apr.	84	235	107	23	se	Sr. Angel R. Cañas.
"Providencia" (Güines)†	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 68	.....	.....	.....	.....	Sr. Pascual Goicoechea.
"Rosario" (Aguacate)	,,	75.5	96	*June 29	44	*Feb. 20	40	Apr. 5	57.96	13.62	May	1.25	Dec.	131	212	108	45	e	Sr. Ramon Pelayo.
Matanzas †	Matanzas	.....	.....	.....	47	Mch. 3	.....	.....	.....	.....	.....	.....	.....	† 98	†195	† 79	† 53	†e	Sr. Angel Colina.
Union de Reyes	,,	77.9	92	*June 27	51	Jan. 4	22	*Feb. 23	55.12	13.78	May	.....	.....	75	221	93	51	ne	Sr. Felix R. Garayta.
"Limones" (Limonar). †	,,	.....	.....	.....	.....	.....	.....	.....	.....	16.64	July	t.	Nov.	† 92	† 92	†141	†101	†s	Sr. Eduardo Dorticos.
Cardenas †	,,	.....	98	*Sep. 18	54	Jan. 29	.....	.....	.....	11.28	May	.....	.....	† 83	† 40	†255	† 39	†e	Sr. J. M. G. Lavin.
Jagüey Grande †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 44	† 53	†104	† 99	†ne	Sr. Antonio Alvarez.
Banagüises	,,	75.5	94	*Apr. 10	47	Feb. 26	36	Feb. 20	55.07	9.49	May	.22	Nov.	91	204	138	23	ne	Sr. Miguel Mendoza.
Alvarez †	Santa Clara	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 22	.....	.....	.....	.....	Sr. Dr. Carlos Cabello.
"Magdalena" (Campiña)†	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 55	.....	.....	.....	.....	Sr. E. Ferrer.
Cienfuegos †	,,	.....	*95	Aug. 28	49	Feb. 26	.....	.....	.....	.....	.....	.....	.....	†113	†161	†125	† 48	†ne	U. S. Weather Bureau.
"Soledad" (Cienfuegos) ..	,,	75.4	93	June 27	42	Apr. 6	42	Apr. 6	46.51	9.63	Aug.	.18	Nov.	† 92	† 71	†133	† 18	†ne	A. A. Hughes, Esq.
"Guabairo" (Cienfuegos)	,,	.....	.....	.....	.....	.....	.....	.....	51.09	9.06	July	.50	Nov.	96	66	224	75	ne	Capt. P. M. Beal.
Cruces †	,,	.....	.....	.....	.....	.....	.....	.....	.....	9.99	Sep.	.....	.....	† 80	†173	† 64	† 36	—	Sr. Dr. José Ruibal.
Sagua la Grande	,,	76.5	97	May 1	45	Jan. 4	38	Apr. 11	50.65	13.52	May	0	Apr.	112	187	129	49	ne	Sr. F. P. Machado.
Santa Clara	,,	77.4	98	*June 9	39	Feb. 23	50	*Feb. 18	54.90	15.97	May	.09	Jan.	89	185	113	67	e	Sr. Vicente G. Abreu.
"Fé" (Camajuaní)	,,	74.8	98	Apr. 26	49	Jan. 4	33	Apr. 26	54.68	12.19	June	.51	Feb.	156	127	131	107	e	Sr. José Ma. Espinosa.
Sancti-Spíritus †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 22	† 38	† 32	† 22	—	Sr. Juan Ysern Perez.
Yaguajay †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 27	† 57	† 14	† 21	ne	Sr. Augusto Venegas.
Moron	Puerto Príncipe	77.6	96	*Aug. 21	50	Mch. 13	33	*Jan. 3	58.50	16.52	May	.46	Apr.	93	166	139	60	ne	Sr. Benito Grandal.
Puerto Príncipe	,,	76.7	96	Sep. 1	49	Feb. 20	29	Mch.15	61.82	12.01	May	.91	Aug.	137	116	154	95	ne	U. S. Weather Bureau.
Santa Cruz del Sur †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 20	† 70	† 13	† 9	e	Sr. S. Fluriach.
Nuevitas	,,	.....	96	May 2	56	*Jan. 26	.....	.....	46.38	12.42	May	t.	Mch.	82	231	51	83	ne	Sr. Guillermo Ruíz.
Manzanillo	Santiago	81.0	96	*July 18	63	*Jan. 1	25	Dec. 8	51.48	12.66	Sep.	.15	Dec.	94	186	149	30	ne	Sres. Beattie & Co.
Holguin	,,	77.3	95	*July 13	54	Mch. 13	31	Mch.15	44.16	8.78	May	1.15	Feb.	118	216	66	83	e	Dr. F. A. W. Conn.
"Sta. Lucía" (Gibara) †..	,,	.....	.....	.....	54	Mch. 14	26	Feb. 17	.....	.....	.....	.....	.....	†102	†133	†104	† 86	†ne	Sr. Jorge J. Hernandez.
Santiago de Cuba	,,	79.6	95	Aug. 13	59	Apr. 7	26	*Feb. 20	59.94	29.49	Sep.	.34	Dec.	110	111	188	66	ne	U. S. Weather Bureau.
Guantánamo †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 94	† 75	†141	† 29	†se	Theodore Brooks, Esq.
"Caños" (Guantánamo) †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 33	† 95	† 28	† 61	†ne	Sr. Pablo Odoardo.
"Soledad" (Guantánamo)†	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 6	.....	.....	.....	†n	E. A. Brooks, Esq.
"Isabel" (Guantánamo) †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 6	† 48	† 9	† 4	—	Sr. L. Despaigne.
'Romelie' (Guantánamo) †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 4	† 21	† 5	† 5	—	Sr. A. Taupier.
"Bella Vista" (Yateras) †	,,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	† 15	.....	.....	.....	.....	Sr. Felix Bégué.

* Also occurred subsequently.

† Record incomplete.

*Tambien en dias subsecuentes.

†Anotación incompleta.

Monthly and Annual Mean Temperatures for the Year 1900.

STATIONS.	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			ANNUAL		
	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.	Mean.
San Cayetano	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	91.3	73.1	8.22	90.5	71.8	81.2	90.0	71.2	80.6	89.7	72.2	81.0	87.0	70.8	78.9	85.6	63.3	74.4	82.9	65.9	74.4	....	....	....
Pinar del Rio	80.2	59.7	70.0	81.6	60.9	71.2	81.9	62.3	72.1	85.5	67.1	76.3	87.3	71.4	79.4	88.8	72.5	80.6	89.3	73.0	81.2	90.8	73.5	82.2	88.9	73.0	81.0	86.6	71.2	78.9	82.0	65.3	73.6	80.9	65.9	73.4	85.3	68.0	76.7
Guanajay	78 0	63.7	70.8	82.2	....	....	82.1	72.9	77.5	86.4	77.6	82.0	88.6	78.6	83.6	88.7	74.2	81.4	....	69.0	....	89.0	70.0	79.5	88.3	71.2	79.8	88.8	69.9	79.4	80.6	65.2	72.9	78.8	64.0	71.4	....	....	....
Havana	74.6	63 6	69.1	77.6	63.9	70.8	78.4	66.0	72.2	82.5	68.9	75.7	83.0	72.2	77.6	86.3	73.4	79.8	86.5	73.5	80.0	87.3	74.8	81.0	86.6	74.2	80.4	85.8	73.3	79.6	81.1	68.1	74.6	79.9	68.5	74 2	82.5	70.0	76.2
Batabanó	78.2	58.4	68.3	84.1	61.2	72.5	83.8	64.6	74.2	89.5	68.4	79.0	88.3	72.0	80.2	92.5	72.9	82.7	92.0	72.6	82.3	91.1	72.9	82.0	87.8	72.7	80 2	85.2	71.4	78.6	80.7	64.0	72.4	78.2	64.2	71.2	86.0	67.9	77.0
"Providencia" (Giines)	79.2	67.9	73.6	75.0	66 4	70.8	76.3	68.0	72.1	85.1	74.2	79.6	89.4	78.5	84.0	93.1	72.3	82.7	94.4	79.3	86.8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
"Rosario" (Aguacate)	77.0	55.8	66.4	82.8	58.5	70.2	82 3	58.4	70.4	89.6	62.2	75.9	87.7	69.1	78.4	91.1	67.7	79.4	91.9	69.2	80.6	93.4	69.5	81.4	90.2	69.3	79.8	89.4	66.8	78.1	84.3	61.0	72.6	83.3	62.4	72.8	86.9	64.2	75.5
Matanzas	75.5	58.3	66.9	80.2	59.9	70.0	81.7	61.7	71.7	86 4	65.6	76.0	85.5	69.0	77.2	89.2	69.4	79.3	89.5	70.0	78.9	....	....	....	89.4	69.3	79.4	88 3	67.5	77.9	82.5	62.9	72.7	82.0	62.9	72.4	....	....	....
Union de Reyes	76.3	65.0	70.6	79.8	65.1	72.4	82.2	67.8	75.0	85 6	71.4	78.5	84.8	74.1	79.4	87.9	75.8	81.8	88.2	75.9	82.0	88.8	76.9	82.8	87.3	75.4	81.4	86.4	74.2	80.3	81.6	69.3	75.4	80.7	69.3	75.0	84.1	71.7	77.9
Cardenas	77.9	60.5	69.2	80.8	63.0	75.6	82.2	65.2	73.7	86.2	69.0	77.6	89.4	72.8	81.1	92.0	71.9	82.0	93.0	72.6	82.8	93.1	73.5	83.3	93.4	72.1	82.8	90.9	72.1	81.5	84.5	68.2	76.4	....	....	....	....	....	....
Jagiiey Grande	80.1	57.3	68.7	....	....	....	84.9	59.0	72.0	91.9	63.5	77.7	90.9	68.2	79.6	91.9	69.4	80.6	93.8	70 6	82.2	....	....	....	....	....	....	....	....	....	86.2	63.2	74.7	85.8	59.5	72.6	....	....	....
Banagiiises	78.9	58.9	68.9	83.7	59.7	71.7	83.7	60.5	72.1	87.9	64.6	76.2	85.3	70.3	77.8	89.0	69.0	79.0	88.2	69.7	79.0	88.7	71.1	79.9	87.7	69.5	78.6	88.7	67.7	78.2	84.1	61.7	72.9	82.3	61.9	72.1	85.7	65.4	75.5
Cienfuegos	78.5	61.3	69.7	80.2	61.4	70.8	....	....	....	85.9	68.6	77.3	86.3	72.3	79.3	88.7	72.0	80.4	89.3	72.3	80.8	91.7	73.3	82.5	88.5	72.2	80.4	86.7	70.8	78.8	84.1	67.4	75.8	83.1	67.0	75.0	....	....	....
"Soledad" (Cienfuegos)	79.0	59.2	69.1	80.3	60.2	70.2	83.8	55.8	69.8	87.1	60.4	73.8	86.5	71.1	78.8	88.9	69.8	79.4	89.5	70.5	80.0	90.6	71.1	80.8	88.1	68.9	78.5	87.5	67.2	77.4	83.3	64.8	74.0	82.0	65.1	73.6	85.5	65.3	75.4
Sagua la Grande	79.6	58.3	69.0	81.9	60.6	71.2	83.5	61.1	72.3	87.2	62.6	74.9	87.5	69.8	78.6	89.9	69.9	79.9	89.8	71.3	80.6	90.8	73.5	82.2	89.1	71.1	80.1	88.9	69.5	79.2	84.0	66.0	75.0	84.1	65.1	74.6	86.4	66.6	76.5
Santa Clara	81.1	56.5	68.8	89.1	52.0	70.6	91.4	62.0	76.7	90.3	64.0	77.2	89.9	69.1	79.5	91.4	69.4	80.4	91.2	69.5	80.4	93.6	71.3	82.4	91.1	78.0	84.6	89.3	69.0	79.2	84.3	65.3	74.8	83.4	63.7	73.6	88.8	65.8	77.4
"Fé" (Camajuaní)	75.4	58.4	66.9	78.9	59.2	69.0	81.1	61.6	71.4	85.5	64.5	75.0	86.1	68.8	77.4	87.5	69.0	78.2	87.6	70.1	78.8	89.3	71.6	80.4	86.6	70.0	78.3	85.9	68.4	77.2	80.3	65.2	72.8	79.7	64.3	72.0	83.7	65.9	74.8
Sancti-Spiritus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	87.0	78.4	82.7	82.1	72.3	77.2	81.9	71.5	76.7	....	....	....
Yaguajay	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	90.4	69.5	80.0	84.7	66.4	75.6	84.3	64.3	74.3	....	....	....
Moron	82.1	61.1	71.6	83.7	60 9	72.3	84.2	62.6	73.4	88.8	65.2	77.0	89.4	70.4	79.9	91.2	71.0	81.1	91.4	71.8	81.6	93.7	72.4	83.0	89.8	71.2	80.5	90.7	69.6	80.2	85.4	67.3	76.4	83.9	65.4	74.6	87.9	67.4	77.6
Puerto Príncipe	78.8	62.2	70.7	80.2	61.8	71.0	83.7	62.9	73.3	86.0	65.3	75.6	87.2	70.6	78.9	89.5	70.2	79.8	89.7	71.1	80.4	92.0	72.2	82.1	88.5	70.5	79.5	88.8	68 9	78.8	83.5	67.8	75.6	83.7	65.8	74.8	86.0	67.4	76.7
Santa Cruz del Sur	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	85.2	74.7	80.0	87 7	72.1	79.9	88.0	72.6	80.3	....	....	....	....	....	....	84.0	73.0	78.5	.. .	....	....	....	....	....
Nuevitas	....	65.6	....	82.7	67.1	74.9	85.0	68.2	76.6	87.9	70.7	79.3	88.8	73.6	81.2	92.0	74.5	83.2	89.6	75.6	82.6	85.4	76.5	81.0	84.4	74.8	79.6	86.1	74.8	80.4	81.7	73.8	77.8	81.1	72.8	77.0	....	72.3	....
Manzanillo	79.4	68 9	74.2	81.0	72.2	76.6	82.7	76.7	79.7	84.7	76.2	80.4	89.1	78.3	83.7	91.7	78.1	84.9	92.5	77.1	84.8	92.6	75.9	84.2	89.3	74.4	81.8	89.8	76.8	83.3	87.8	70.8	79.3	86.8	70.0	78.4	87.3	74.6	81.0
Holguin	78.6	65.6	72.1	81.5	64.7	73.1	85.1	65.8	75.4	88.0	65.3	76.6	88.2	68.5	78.4	89.0	68.3	78.6	91.3	68.9	80.1	91.6	73.4	82.5	87.3	71.1	79.2	89.2	70.6	79.9	84.0	68.4	76.2	82.5	68.0	75.2	86.4	68.2	77.3
"Santa Lucía" (Gibara)	79.8	64.4	72.1	81.6	64.1	72.8	83.0	68.3	75.6	....	....	....	....	....	....	88.2	71.2	79.7	90.5	72.3	81.4	91.1	73.1	82.1	87.9	70.8	79.4	89.5	69.2	79.4	83.4	68.6	76.0	82.6	67.0	74.8	....	....	....
Santiago de Cuba	82.7	67.8	75 0	85.0	67.2	76.1	86.3	68.1	77.2	87.5	69.8	78.6	88.1	73.9	81.0	90.1	73.9	82.0	91.6	73.8	82.7	91.7	74.2	83.0	88.7	72.7	80.7	88.3	72.3	80.3	88.1	71.1	79.6	87.0	69.8	78.4	87.9	71.2	79.6
Guantánamo	....	....	....	....	....	....	....	....	....	....	....	....	86.0	70.7	78.4	92.8	70.1	81.4	93.5	69.3	81.4	93.4	69.9	81.6	91.0	69.6	80.3	90.4	68.4	79.4	87.7	67.0	77.4	87.7	64.4	76.0	....	....	....
"Caños" (Guantánamo)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	93.9	68.7	81.3	94.3	69.2	81.8	86.6	62.1	72.8	90.9	67.2	79.0	89.9	65.1	77.5	89.3	62.1	75.7	....	....	....
"Soledad" (Guantánamo)	.. .	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	88 7	70.5	79.6	89.3	65.7	77.5	88.9	61.8	75.4	....	....	....

Monthly Maximum Temperatures for the Year 1900, with Dates.

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
San Cayetano	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	95	21	98	*15	93	*27	97	20	90	* 1	90	* 1	90	* 1
Pinar del Rio	87	7	91	5	88	29	92	*29	94	6	93	27	93	15	93	*14	93	2	91	1	88	3	85	* 4
Guanajay	81	*12	85	9	84	*29	89	*25	89	* 1	90	*25	.....	.....	90	* 1	89	* 1	89	* 5	87	1	83	* 3
Havana	82	10	86	8	86	20	89	25	88	17	91	24	90	15	90	23	90	14	90	4	88	3	86	31
Batabanó	88	11	95	12	89	21	97	25	96	6	96	* 2	95	16	94	* 8	92	1	91	2	84	* 2	81	26
"Providencia" (Güines)	84	6	79	* 2	80	*23	90	*16	94	18	95	*21	96	* 5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"Rosario" (Aguacate)	85	10	90	* 6	90	24	94	9	93	2	96	29	95	*14	96	24	94	*18	94	* 4	91	3	89	31
Matanzas	84	10	89	8	89	29	93	25	93	9	94	8	93	*17	.....	.....	94	17	93	12	89	3	87	* 4
Union de Reyes	83	10	87	*13	89	29	91	*10	91	19	92	*27	91	24	91	*13	90	*13	90	16	87	2	88	8
Cardenas	86	31	90	*10	93	25	91	*17	94	20	96	11	95	*11	95	*13	98	*18	98	* 1	90	* 2	.....	.....
Jagüey Grande	87	11	.....	.....	92	28	95	*20	96	7	94	* 9	95	* 9	.....	.....	.....	.....	.....	.....	88	1	88	* 1
Banagüises	87	31	89	* 8	92	29	94	10	92	* 9	93	27	91	* 9	94	24	91	* 3	93	20	90	4	89	* 4
Cienfuegos	83	23	86	9	.....	.....	91	15	92	5	92	25	93	22	95	28	93	1	90	16	88	18	87	2
"Soledad" (Cienfuegos)	84	*11	86	11	89	21	92	11	92	7	93	27	91	* 3	92	*12	91	2	90	18	89	14	87	4
Sagua la Grande	86	*11	90	16	92	20	96	*24	97	1	96	11	93	* 9	93	* 2	95	18	94	10	90	* 4	89	*14
Santa Clara	89	20	95	*16	95	24	95	*13	96	4	98	9	95	*14	96	3	97	21	93	* 9	98	2	89	* 4
"Fé" (Camajuani)	84	11	87	17	88	*20	98	26	93	4	93	* 9	94	14	92	24	92	18	92	12	85	* 2	85	* 4
Sancti-Spíritus	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	91	*14	88	* 2	87	* 4
Yaguajay	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	94	*11	91	3	91	* 4
Moron	87	* 2	92	*15	91	* 9	95	25	94	21	95	*17	94	*10	96	*21	94	* 3	96	18	92	3	89	* 4
Puerto Príncipe	86	12	87	17	90	24	91	24	92	22	95	17	93	22	94	24	96	1	92	9	89	4	89	14
Santa Cruz del Sur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	88	* 1	93	28	92	6	.....	.....	.....	.....	87	* 1	.....	.....
Nuevitas	.....	.....	91	*15	95	16	93	25	96	2	95	22	94	1	90	3	91	19	90	* 2	90	*10	90	1
Manzanillo	83	*22	89	12	89	29	88	*11	93	* 3	95	*22	96	*18	95	*16	93	*19	93	* 9	94	* 1	94	8
Holguin	86	20	88	17	92	28	94	*13	93	3	92	* 8	95	*13	95	21	92	18	93	16	90	*15	87	*14
"Santa Lucía" (Gibara)	87	*19	90	*22	93	16	.....	.....	.....	.....	94	23	94	14	95	21	92	17	95	28	92	12	89	20
Santiago de Cuba	87	22	88	12	89	31	93	15	94	29	93	15	94	23	95	13	94	25	92	10	91	17	90	15
Guantánamo	.....	.....	.....	.....	.....	.....	.....	.....	96	*27	96	*16	98	23	98	13	95	*13	95	* 9	91	* 1	92	8
"Caños" (Guantánamo)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	97	19	98	*23	95	* 1	95	17	93	*14	94	5
"Soledad" (Guantánamo)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	92	* 8	93	14	91	* 6

Monthly Minimum Temperatures for the Year 1900, with Dates.

STATIONS.	January		February		March		April		May		June		July		August		September		October		November		December	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
San Cayetano	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71	* 3	70	* 6	69	2	68	*26	66	28	53	29	59	11
Pinar del Rio	51	5	50	20	50	* 3	58	* 2	67	8	69	* 2	69	20	69	16	69	29	67	28	53	14	59	21
Guanajay	55	31	.....	.....	64	2	67	1	75	*12	66	16	64	19	64	6	65	11	67	* 5	55	13	58	8
Havana	57	5	53	20	56	13	60	7	69	14	68	1	70	27	71	13	71	11	70	27	61	27	63	22
Batabanó	52	* 4	48	20	52	4	55	7	67	5	67	6	69	19	70	* 2	68	29	66	30	55	14	58	22
"Providencia" (Güines)	52	30	54	19	64	3	69	* 6	72	28	65	* 3	74	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"Rosario" (Aguacate)	45	* 1	44	20	44	3	49	* 2	63	5	61	* 1	66	*25	66	2	65	*24	62	30	48	14	57	*10
Matanzas	50	26	50	23	47	3	53	7	64	* 5	63	15	65	29	.....	.....	57	27	64	*30	54	14	57	*11
Union de Reyes	51	4	54	*25	59	12	59	7	72	*14	71	6	74	26	74	21	71	*12	70	*29	62	9	63	1
Cardenas	54	29	55	23	57	4	59	8	69	*11	69	* 1	69	*19	70	*11	70	* 7	70	* 1	62	*29	.....	.....
Jagüey Grande	46	* 4	.....	.....	48	* 2	52	7	63	*11	64	* 6	68	22	.....	.....	.....	.....	.....	.....	56	9	52	5
Banagüises	50	27	47	26	49	3	53	7	64	5	61	7	67	23	69	* 3	61	18	65	19	52	29	53	8
Cienfuegos	50	4	49	26	.....	.....	60	8	69	7	68	5	68	19	70	13	69	16	68	26	60	28	61	3
"Soledad" (Cienfuegos)	46	3	49	25	48	8	42	6	68	*17	61	5	68	*21	68	* 1	67	*15	64	*26	59	* 7	59	30
Sagua la Grande	45	4	51	*23	49	* 3	50	7	64	5	60	10	65	*10	68	2	67	*17	66	* 1	63	* 7	58	31
Santa Clara	50	* 2	39	23	54	* 3	50	7	64	7	64	* 5	64	24	68	22	66	24	64	8	52	28	53	11
"Fé" (Camajuaní)	49	4	50	25	51	11	53	* 6	59	11	65	6	68	* 9	68	21	60	15	65	7	62	* 5	59	11
Sancti-Spíritus	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72	29	65	28	67	19
Yaguajay	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65	28	58	*28	60	*19
Moron	51	* 4	52	*20	50	13	54	* 7	62	5	66	* 5	68	26	69	* 7	67	29	67	* 9	59	28	57	31
Puerto Príncipe	55	26	49	20	52	13	54	7	64	5	66	6	68	25	69	6	66	30	63	27	62	25	61	19
Santa Cruz del Sur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72	* 4	68	24	70	* 1	.....	.....	.....	.....	69	30	.....	.....
Nuevitas	56	26	58	26	56	12	60	8	67	5	72	* 7	72	1	72	3	72	* 9	68	28	67	6	67	* 8
Manzanillo	63	* 1	64	*21	68	3	70	8	70	*11	75	24	74	* 2	73	15	72	*13	70	*26	64	*27	66	19
Holguin	60	4	56	20	54	13	57	7	67	* 4	68	* 1	66	*16	71	* 1	64	29	67	*24	61	26	63	18
"Santa Lucía" (Gibara)	59	9	60	20	54	14	.....	.....	.....	.....	67	19	67	22	70	* 3	65	30	64	7	61	26	61	30
Santiago de Cuba	64	9	59	20	61	13	59	7	70	1	67	1	70	26	72	22	69	4	69	26	66	26	65	31
Guantánamo	.....	.....	.....	.....	.....	.....	.....	.....	62	1	66	4	67	*18	66	22	64	30	64	1	61	*26	58	31
"Caños" (Guantánamo)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66	* 5	66	* 9	64	*28	62	6	59	26	58	* 7
"Soledad" (Guantánamo)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65	29	60	*26	55	31

*Also occurred subsequently.

*Tambien en dias subsecuentes.

Monthly and Annual Precipitation for the Year 1900.

STATIONS	January	February	March	April	May	June	July	August	September	October	November	December	Annual
San Cayetano						7.66	7.15	3.10	6.10	8.58	.90	1.60	
Pinar del Rio	5.49	4.32	2.60	1.35	12.57	3.85	5.45	4.73	6.20	3.42	1.06	1.00	52.04
Guanajay	3.14	2.77	2.26	3.86	10.39	9.60	12.53	6.74	9.59	4.45	1.32	2.27	68.92
Havana	2.24	3.39	3.58	.29	9.93	3.43	5.40	1.72	4.25	1.95	.96	1.78	38.92
Batabanó	1.88	3.55	1.85	0	10.26	5.89	6.89	6.53	5.97	3.35	1.07	.22	47.46
"Providencia" (Güines)	2.95	5.77	.64	3.21	17.02	7.83	11.17						
"Rosario" (Aguacate)	1.57	4.83	1.73	3.73	13.62	6.90	8.89	1.80	7.75	4.36	1.53	1.25	57.96
Matanzas	1.80	3.10	2.46	.22	9.17	8.25	3.87		6.35	5.04	1.38	1.12	
Union de Reyes	1.16	3.19	.33	5.08	13.78	6.18	9.35	4.52	7.88	3.65	0	0	55.12
"Limones" (Limonar)		3.63	.69	1.87	6.17	10.07	16.64	7.01	10.80	6.85	t.	.80	
Cardenas	1.35	4.01	1.07	1.05	11.28	5.94	4.96	1.82	4.26	5.59	.41		
Jagüey Grande	.37	3.46	t.	3.35	8.12	2.80	3.31				.88	2.85	
Banagüises	1.31	2.80	1.77	4.12	9.49	7.44	7.98	4.86	5.41	8.35	.22	1.32	55.07
Alvarez										2.65	1.64	1.39	
"Magdalena" (Campiña)							8.47	8.26	14.47	2.68	.62	.64	
Cienfuegos	.74	1.55		.67	5.55	4.94	6.44	3.67	7.58	10.17	.15	.37	
"Soledad" (Cienfuegos)	.99	1.57	1.40	.49	6.81	5.26	8.93	9.63	6.36	4.43	.18	.46	46.51
"Guabairo" (Cienfuegos)	.74	1.56	1.56	2.43	6.93	6.07	9.06	7.81	8.51	5.04	.50	.88	51.09
Cruces		1.62	2.78	3.09	4.54	5.53	5.01	7.14	9.99	5.65	.15	1.28	
Sagua la Grande	1.39	1.30	.92	0	13.52	13.49	5.15	1.27	5.22	3.50	2.64	2.25	50.65
Santa Clara	.09	.99	1.95	1.51	15.97	7.61	3.41	.84	9.53	6.75	2.87	3.38	54.90
"Fé" (Camajuaní)	2.03	.51	1.57	1.43	12.07	12.19	4.40	1.74	8.24	4.93	2.37	3.20	54.68
Sancti-Spíritus										3.99	.73	2.34	
Yaguajay										5.08	2.74	1.96	
Moron	4.42	.73	3.27	.46	16.52	8.37	2.98	1.56	11.76	2.73	4.93	.77	58.50
Puerto Principe	4.40	1.32	5.82	3.18	12.01	7.50	3.19	.91	11.06	7.26	1.68	3.49	61.82
Santa Cruz del Sur							3.99	5.64					
Nuevitas	6.38	1.16	t.	1.47	12.42	1.77	3.65	.29	6.16	2.36	8.47	2.25	46.38
Manzanillo	.85	1.13	1.31	.76	10.23	5.95	5.65	5.12	12.66	4.23	3.44	.15	51.48
Holguin	2.84	1.15	1.18	5.95	8.78	4.72	1.25	4.04	7.05	3.86	1.81	1.53	44.16
"Santa Lucía" (Gibara)	6.89	1.64	.45			2.89	1.20	1.55	6.61	2.03	6.04	2.39	
Santiago de Cuba	1.08	.87	1.42	3.01	5.23	3.15	1.31	5.89	29.49	4.34	3.81	.34	59.94
Guantánamo					10.07	3.76	2.58	8.51	16.95	2.37	2.61	.59	
"Caños" (Guantánamo)							3.60	2.45	20.15	2.69	.62	1.04	
"Soledad" (Guantánamo)										2.89	.98	.34	
"Isabel" (Guantánamo)											2.67	.21	
"Romelie" (Guantánamo)												.96	
"Bella Vista" (Yateras)											1.15	.31	